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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,267	11/25/2003	Paul Joseph O'Dea	137991 (553-1063US)	8624
45436 DEAN D. SM/	7590 04/01/201 A I I	EXAM	EXAMINER	
THE SMALL PATENT LAW GROUP LLP 225 S. MERAMEC, STE. 725T ST. LOUIS, MO 63105			COBANOGLU, DILEK B	
			ART UNIT	PAPER NUMBER
,			3626	
			NOTIFICATION DATE	DELIVERY MODE
			04/01/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Docket@splglaw.com

Office Action Summary

Application No.	Applicant(s)	
10/722,267	O'DEA ET AL.	
Examiner	Art Unit	
DILEK B. COBANOGLU	3626	

	for Reply	cover sneet with the correspondence address
WHIC - Exter after - If NO - Failu Any	HORTENED STATUTORY PERIOD FOR REPLY IS SET TO ICHEVER IS LONGER, FROM THE MAILING DATE OF THI transiens of time may be available under the provisions of 37 CFR 1.38(a). In no ever or SIX (b) MOTH'S from the making date of this communication. While the control of the contr	S COMMUNICATION. It, however, may a reply be timely filed expire SIX (6) MONTHS from the mailing date of this communication. action to become ABANDONED (35 U.S.C. § 133).
Status		
2a)⊠	Responsive to communication(s) filed on 16 December 20 This action is FINAL. 2b) This action is no Since this application is in condition for allowance except followed in accordance with the practice under Ex parte Que	on-final. or formal matters, prosecution as to the merits is
Disposit	ition of Claims	
5)□ 6)⊠ 7)□	Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from con Claim(s) is/are allowed. Claim(s) 1-24 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election re	
Applicati	ation Papers	
10)□	The specification is objected to by the Examiner. The drawing(s) filed onis/are: a) accepted or b)[Applicant may not request that any objection to the drawing(s) bre Replacement drawing sheet(s) including the correction is require The oath or declaration is objected to by the Examiner. Not	e held in abeyance. See 37 CFR 1.85(a). d if the drawing(s) is objected to. See 37 CFR 1.121(d).
Priority (under 35 U.S.C. § 119	
a)	Acknowledgment is made of a claim for foreign priority und All b Some * c None of: 1. Certified copies of the priority documents have beer 2. Certified copies of the priority documents have beer 3. Copies of the certified copies of the priority documents application from the International Bureau (PCC Rule) See the attached detailed Office action for a list of the certified	received. received in Application No hts have been received in this National Stage 17.2(a)).
Attachmen	• •	<u> </u>
	tice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date.

5) Notice of Informal Patent Application
6) Other: _____. Information-Disclosure Statement(e) (FTO/SE/00)
 Paper No(s)/Mail Date ______.

Art Unit: 3626

DETAILED ACTION

Notice to Applicant

This communication is in response to the amendment received on 12/16/2009.
 Claims 1, 9, 13-14 and 20-21 have been amended. Claims 1-24 remain pending in this application.

Response to Arguments

- Applicant's arguments with respect to amended claim 1 have been considered but are moot in view of the new ground(s) of rejection.
- 3. In response to Applicant's argument about the Examiner's Official Notice;
 Examiner respectfully submits the following references that teach " providing electronic notification after an expiration of a predetermined time period for the at least one ultrasound scan":
 - a. Ultrasound probe with integrated electronics 20040015079, Berger et al.,
 at least paragraphs: 24, 30, 103-104, 129.
 - Examination reserve system, maintenance service system, medical imaging apparatus, examination reserve method, and maintenance service method, 20030139665, Takayama et al., at least paragraphs: 13, 41,
 - c. Medical diagnosis system having a medical diagnosis apparatus and a display to be observed by a patient, US 6872179 B2, Kamiyama et al., at least col. 6, lines 20-58.

Art Unit: 3626

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 McMorrow et al. (hereinafter McMorrow) (U.S. Patent No. 6,569,097 B1) in view of Kim et al. (hereinafter Kim) (U.S. Patent No. 5,492,125).
 - Claim 1 has been amended now to recite a method for managing ultrasound examination information, the method comprising:
 - i. determining a completion of at least one ultrasound scan performed during an ultrasound examination (McMorrow; col. 3, lines 1-45, col. 5, line 51 to col. 6, line 3, col. 7, lines 27-40); and
 - ii. providing electronic notification of completion of the at least one ultrasound scan (McMorrow; col. 3, lines 1-45, col. 5, line 51 to col. 6, line 3, col. 7, lines 27-40) with a completion signal.

McMorrow fails to expressly teach a completion signal, per se, since it appears that McMorrow is more directed to "...After the results are made available to the user, both the identification number of the examination and the ID of the particular electronic instrument used are sent to the customer relationship management

Art Unit: 3626

(CRM) accounting server, as shown at block 92." However, this feature is well known in the art, as evidenced by Kim.

In particular, Kim discloses <u>a completion signal</u> (Kim; col. 8, lines 44-46 and in claims).

It would have been obvious to one having ordinary skill in the art at the time of the invention to include the aforementioned limitation as disclosed by Kim with the motivation of to retrieve the frame for processing (Kim; col. 8, lines 44-46).

- B. As per claim 2, McMorrow teaches a method in accordance with claim 1 further comprising generating an output based upon the electronic notification (McMorrow; col. 9, lines 6-52).
- C. As per claim 3, McMorrow teaches a method in accordance with claim 2 wherein the output comprises at least one billing statement (McMorrow; col. 9, lines 6-52).
- D. As per claim 4, McMorrow teaches a method in accordance with claim 2 wherein the generating is provided automatically upon the completion of the at least one scan (McMorrow: col. 9. lines 6-52).
- E. As per claim 5, McMorrow teaches a method in accordance with claim 1 wherein at least one of the ultrasound scans comprises an unscheduled scan (McMorrow; col. 3, lines 1-45).

Art Unit: 3626

F. As per claim 6, McMorrow teaches a method in accordance with claim 1 wherein the electronic notification is provided automatically upon completion of a scan (McMorrow; col. 5, line 51 to col. 6, line 3).

- G. As per claim 7, McMorrow teaches a method in accordance with claim 1 wherein the electronic notification is provided based upon a user input (McMorrow; col. 5, line 51 to col. 6, line 3).
- H. As per claim 8, McMorrow teaches a method in accordance with claim 1 further comprising associating completed ultrasound scans with patient information (McMorrow; col. 7, lines 27-40).
- Claim 9 has been amended now to recite a method in accordance with
 claim 1 <u>further comprising communicating the completion signal to a remote</u>
 system and

wherein <u>ultrasound data from the ultrasound scan is not communicated to the remote system</u> (McMorrow; col. 9, lines 6-52). McMorrow teaches "After the results are made available to the user, both the identification number of the examination and the ID of the particular electronic instrument used are sent to the customer relationship management (CRM) accounting server, as shown at block 92. The CRM server then creates a billing..." in col. 9, lines 28-37.

The obviousness of modifying the teaching of McMorrow to include communicating the completion signal to a remote system (as taught by Kim) is as addressed above in the rejection of claim 1 and incorporated herein.

Art Unit: 3626

J. As per claim 10, McMorrow teaches a method in accordance with claim 1 wherein at least one of the ultrasound scans is scheduled and further comprising obtaining ultrasound examination information relating to the at least one scheduled ultrasound scan (McMorrow; col. 3, lines 1-45).

- K. As per claim 11, McMorrow teaches a method in accordance with claim 10 further comprising searching a patient database for the ultrasound examination information (McMorrow; col. 3, lines 1-45).
- L. As per claim 12, McMorrow teaches a method in accordance with claim 1 wherein at least one of the ultrasound scans is unscheduled and further comprising updating ultrasound examination information relating to the at least one unscheduled ultrasound scan (McMorrow; col. 3, lines 1-45).
- M. Claim 13 has been amended now to recite a method in accordance with claim 1 <u>further comprising immediately generating an output at a remote system</u> (McMorrow; col. 9, lines 49-52) <u>upon receiving the completion signal</u>. McMorrow teaches "...the billing is automatically tallied and provided both to the user and/or to the insurance company, as appropriate." In col. 9, lines 49-52.

The obviousness of modifying the teaching of McMorrow to include a completion signal (as taught by Kim) is as addressed above in the rejection of claim 1 and incorporated herein.

 N. Claim 14 has been amended now to recite a method for managing ultrasound examination information, the method comprising:

Art Unit: 3626

 i. searching a database for ultrasound examination information based upon a user input, the ultrasound examination information relating to one or more ultrasound scans to be performed during an ultrasound examination (McMorrow; col. 3, lines 1-45); and

ii. generating an output based upon a received completion signal that at least one of the one or more ultrasound scans is complete, the output corresponding to the ultrasound examination information and provided remote from an ultrasound system used to perform the ultrasound examination (McMorrow; col. 4, lines 48-67, col. 5, line 34 to col. 6, line 31).

The obviousness of modifying the teaching of McMorrow to include communicating a completion signal to a remote system (as taught by Kim) is as addressed above in the rejection of claim 1 and incorporated herein.

- O. As per claim 15, McMorrow teaches a method in accordance with claim 14 wherein the output comprises at least one billing statement (McMorrow; col. 9, lines 6-52).
- P. As per claim 16, McMorrow teaches a method in accordance with claim 14 wherein a separate output is generated in connection with each electronic notification (McMorrow; col. 5, line 34 to col. 6, line 31).
- Q. As per claim 17, McMorrow teaches a method in accordance with claim 14 further comprising configuring the output based upon predefined criteria (McMorrow; col. 5, line 34 to col. 6, line 31).

Art Unit: 3626

R. As per claim 18, McMorrow teaches a method in accordance with claim 14 wherein the electronic notification is generated based upon a user input (McMorrow; col. 5. line 34 to col. 6. line 31).

- S. As per claim 19, McMorrow teaches a method in accordance with claim 14 wherein the electronic notification is automatically generated upon completion of an ultrasound scan (McMorrow; col. 5, line 34 to col. 6, line 31, col. 7, lines 27-40).
- T. Claim 20 has been amended now to recite a method in accordance with claim 14 wherein the completion signal is received by an administrative system and further comprising immediately generating a billing statement from the administrative system upon receiving the completion signal.

McMorrow teaches "After the results are made available to the user, both the identification number of the examination and the ID of the particular electronic instrument used are sent to the customer relationship management (CRM) accounting server,...the billing is automatically tallied and provided both to the user and/or to the insurance company, as appropriate." In col. 9. lines 28-52.

The obviousness of modifying the teaching of McMorrow to include a completion signal (as taught by Kim) is as addressed above in the rejection of claim 1 and incorporated herein.

U. Claim 21 has been amended now to recite a user interface for an ultrasound system comprising:

Art Unit: 3626

a control portion for controlling operation of an ultrasound system
 (McMorrow: col. 3, lines 1-45, col. 5, line 34 to col. 6, line 31); and

ii. a menu portion for receiving a user input indicating the completion of at least one ultrasound scan, a completion signal transmitted based upon the user input and used by a remote system for generating an output based upon ultrasound examination information (McMorrow; col. 3, lines 1-45. col. 5, line 34 to col. 6, line 31).

The obviousness of modifying the teaching of McMorrow to include <u>a</u> <u>transmitting a completion signal</u> (as taught by Kim) is as addressed above in the rejection of claim 1 and incorporated herein.

- V. As per claim 22, McMorrow teaches a user interface in accordance with claim 21 wherein the menu portion is configured to allow for selection of a plurality of user screens, at least one of the screens providing fields for searching the ultrasound examination information (McMorrow; col. 7, lines 7-20).
- W. As per claim 23, McMorrow teaches a method in accordance with claim 1 further comprising providing electronic notification of at least one of an update and change to the at least one ultrasound scan (McMorrow; col. 8, lines 38-51).
- Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over
 McMorrow et al. (hereinafter McMorrow) (U.S. Patent No. 6,569,097 B1) in view of
 Examiner's Official Notice.

Art Unit: 3626

A. Claim 24 recites a method in accordance with claim 1 further comprising providing electronic notification after an expiration of a predetermined time period for the at least one ultrasound scan.

McMorrow does not explicitly disclose providing electronic notification after an expiration of a predetermined time period for the at least one ultrasound scan, per se McMorrow teaches electronic notification of completion of a scan (McMorrow; col. 3, lines 1-45, col. 5, line 34 to col. 6, line 31 and col. 7, lines 27-40).

However, the Examiner takes official notice that it was well known in the electronic medical recording arts to provide a notification when a predetermined time period expires for a certain work. The motivation would have been to alert the medical providers.

Conclusion

- THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 8. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 10/722,267

Art Unit: 3626

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to DILEK B. COBANOGLU whose telephone number is (571)272-8295. The examiner can normally be reached on 8-4:30.
- 10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry O'Connor can be reached on 571-272-6787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. B. C./ Examiner, Art Unit 3626 3/25/2010

/Robert Morgan/ Primary Examiner, Art Unit 3626